

INTERNATIONAL SEARCH REPORT

national Application No

T/GB2004/000951

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 E02D27/42 E02D13/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 E02D G01C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 1 549 168 A (TOWNSEND ELVIN E) 11 August 1925 (1925-08-11) page 1, line 13 - line 17; figure 1	1
A	EP 0 302 707 A (CEMENTATION PILING & FOUND) 8 February 1989 (1989-02-08) cited in the application abstract; figure 7	1,9
A	PATENT ABSTRACTS OF JAPAN vol. 0093, no. 03 (M-434), 30 November 1985 (1985-11-30) -& JP 60 141924 A (MITSUI KENSETSU KK), 27 July 1985 (1985-07-27) abstract; figure 1	1,9

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

28 May 2004

Date of mailing of the international search report

15/06/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

De Neef, K

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/000951

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 1549168	A	11-08-1925	NONE	
EP 0302707	A	08-02-1989	DE 3863322 D1 EP 0302707 A1 HK 111993 A	25-07-1991 08-02-1989 29-10-1993
JP 60141924	A	27-07-1985	JP 1706389 C JP 3073700 B	27-10-1992 22-11-1991